

CLIMATOLOGICAL DATA

6

FLORIDA SECTION

W. J. Bennett, Jacksonville, Fla.

VOL. XXXVIII

OCTOBER, 1934

No. 10

GENERAL SUMMARY

October 1934 was the warmest October since 1925, practically every station reporting an excess of temperature. The rainfall was deficient for the state as a whole, the deficiency being greatest over the southern division. Over the northern and western divisions the majority of stations showed an excess, and the rainfall was particularly heavy in the extreme west. Most of the rain occurred during the first half of the month, the last two weeks being practically rainless, with nearly 100 percent sunshine. The heavy rains in the west were caused by a moderate tropical disturbance which passed inland near Pensacola on the 5th. Damage was done by rain, but winds were only moderately high, Pensacola reporting 38 miles per hour as the highest. No other tropical disturbance affected the state.

The cotton season was practically over with the end of September, but some fields remained to be picked during the first half of this month. Conditions were favorable, and the crop is reported as good. Dry weather and high temperatures were generally unfavorable for fall truck, but fairly good progress is reported. Snap beans were doing well in the Glades section, and shipments were beginning. Cabbage and celery need rain. Cucumbers were yielding a rather light crop, and Hardee County has already passed the peak of shipment. Eggplant and peppers were in fair condition at the close of the month, and considerable shipments were being made. Tomatoes are in good condition on the whole, and shipments are beginning.

Strawberries have suffered from dry weather and many plants have died out. Those planted on low moist ground are doing well. Citrus promises a large and very good crop. The fruit was ripening well at the close of the month, but was coloring rather slowly. Cooler weather is needed to sweeten and color. Shipments were rather slow, and mostly grapefruit. The dry weather has caused increased dropping, and the trees in some groves begin to show the need of rain.

TEMPERATURE

The monthly mean temperature from the records of 75 stations was 75.3 degrees, or 2.2 degrees above the average of 44 years. The highest monthly mean was 81.0 degrees at Long Key, and the lowest was 70.2 degrees at Cottage Hill. The highest temperature was 97 degrees at Clermont on the 1st, and the lowest was 35 degrees at Compass Lake, Quincy and Vernon on the 29th. The greatest daily range was 49 degrees.

PRECIPITATION

The average precipitation for the month, 80 stations reporting, was 3.64 inches, or a deficiency of 0.83 inch. The greatest monthly amount was 20.51 inches at Pensacola. The greatest amount in 24 consecutive hours was 17.07 inches at Pensacola on the 4-5th. The average number of rainy days was 8.

DATES OF MISCELLANEOUS PHENOMENA

FOG, DENSE:—Gainesville, 11th; Hastings, 6th, 19th; Marianna, 21st; Sarasota, Tallahassee, Vernon, 8th. HALOS, LUNAR:—Key West, 15th, 16th; Pensacola, 17th, 18th. HALOS, SOLAR:—Key West, 3d, 23d; Miami, 8th; Pensacola, 18th. THUNDERSTORMS:—Scattered, 1st to 11th, inclusive, and on the 15th, 16th, 17th, and 25th. DAMAGE BY LIGHTNING:—Jacksonville Heights, 6 miles south of Jacksonville, 8th, house struck by lightning, damage slight.

WBO, Jacksonville, 11-21-34-900

Maximum Rainfall at Regular Stations

Stations	5 min.		10 min.		15 min.		30 min.		1 hour		2 hours		24 hours		Total Monthly
	Amount	Date	Amount	Date	Amount	Date	Amount	Date	Amount	Date	Amount	Date	Amount	Date	
Jacksonville	0.50	1904	0.88	1933	1.22	1933	2.15	1933	3.22	1933	4.19	1933	6.48	1933	16.25
Key West	0.39	11	0.57	11	0.58	11	0.63	11	0.74	11	0.76	11	2.08	13	5.24
Miami	0.50	1912	0.95	1912	1.30	1912	1.87	1909	5.35	1909	5.28	1909	13.54	1933	23.56
Pensacola	0.25	16	0.41	16	0.54	16	0.67	16	0.78	16	0.78	16	1.83	16	23.01
Tampa	0.49	1922	0.79	1922	1.08	1924	1.83	1915	2.69	1929	4.66	1924	9.53	1924	27.86
	0.20	15	0.26	7	0.28	7	0.32	12	0.46	15	0.46	15	0.93	15	8.44
	0.51	5	0.82	5	1.01	5	1.44	5	2.50	5	4.37	5	17.07	4.5	20.51
	0.57	1928	0.90	1928	0.98	1928	1.26	1902	1.52	1923	2.21	1923	6.48	1921	14.66
	0.46	8	0.84	8	1.08	8	1.78	8	2.65	8	3.26	8	8.33	8-9	3.54

* First amount greatest previous; second, current month.

PRESSURE, WIND, HUMIDITY, AND SUNSHINE DATA

Stations	Atmospheric pressure (Reduced to sea level)				Wind (true velocity)			Mean relative humidity		Percentage of sunshine			
	Mean	Highest	Date	Lowest	Average hourly velocity	Maximum velocity	Direction	Date	8 a. m.		Noon	5 p. m.	
Jacksonville	30.04	30.30	30	29.79	13	7.2	24	ne.	1	86	59	76	72
Key West	29.96	30.19	30	29.78	13	9.4	21	nw.	12	77	69	75	78
Miami	29.99	30.24	30	29.78	13	9.9	23	ne.	22	74	62	71	75
Pensacola	30.04	30.30	28	29.39	5	11.5	33	s.	5	80	64	69	75
Tampa	30.01	30.26	30	29.79	1	10.6	24	ne.	14	85	54	71	89

COMPARATIVE DATA FOR OCTOBER

Year	Temperature				Precipitation				Number of days				
	Mean	Departure	Highest	Lowest	Average	Departure	Greatest monthly	Least monthly	Greatest in 24 hours	With precipitation (0.01 inch or more)	Clear	Partly cloudy	Cloudy
1891	70.0	-3.1	91	32	4.96	+0.69	9.58	0.04	.....	8	18	6	7
1892	72.4	-0.7	91	36	4.43	+0.16	14.00	1.28	.....	8	15	9	9
1893	73.0	-0.1	95	41	3.38	-0.89	11.72	0.94	4.45	7	15	10	6
1894	73.0	-0.1	92	40	3.70	-0.57	7.86	1.00	4.65	8	18	8	8
1895	71.7	-1.4	92	44	3.07	-1.20	21.03	0.40	4.34	8	11	11	9
1896	72.4	-0.7	94	40	3.11	-1.16	8.58	0.76	4.15	6	13	12	6
1897	72.4	-0.7	95	40	4.61	+0.34	10.26	0.25	6.30	7	17	9	5
1898	72.4	-1.5	96	30	6.12	+1.85	16.99	T.	6.43	10	13	11	7
1899	73.4	+0.8	94	49	6.10	+1.88	29.10	0.97	12.18	10	11	12	8
1900	75.7	+3.0	94	49	5.49	+1.22	14.20	2.13	5.70	10	12	13	6
1901	72.2	-0.9	94	39	1.85	-2.42	7.08	T.	4.00	4	19	9	3
1902	74.2	+1.1	96	33	5.55	+1.28	18.99	0.98	5.20	10	12	10	9
1903	70.8	-2.3	97	29	1.82	-2.45	6.59	0.00	5.60	4	17	10	9
1904	73.3	+0.2	100	30	4.63	+0.36	21.39	0.00	10.48	10	14	10	4
1905	73.2	+0.1	96	35	2.94	-1.33	10.56	0.15	4.30	6	16	8	7
1906	71.2	-1.9	95	30	3.14	-1.13	13.68	0.36	5.08	6	14	11	6
1907	71.4	-1.7	97	32	1.57	-2.70	5.65	0.00	2.58	4	20	8	3
1908	69.7	-3.4	93	33	3.16	-1.11	27.86	T.	8.37	6	18	8	5
1909	71.5	-1.6	96	34	1.93	-2.34	21.08	0.00	11.23	8	20	7	4
1910	73.1	0.0	95	27	8.74	+4.47	27.81	2.15	9.70	11	13	9	9
1911	76.6	+3.5	99	40	5.25	+0.98	11.87	1.50	5.25	9	15	9	7
1912	74.8	+1.7	95	39	4.07	-0.20	8.62	0.08	6.58	8	13	11	7
1913	70.2	-2.9	98	31	2.91	-1.36	6.95	0.61	3.60	5	19	7	5
1914	72.9	-0.2	94	30	4.02	-0.25	11.58	1.05	5.15	10	15	10	6
1915	75.4	+2.3	96	40	7.51	+3.24	19.10	1.37	7.70	13	12	11	8
1916	73.5	+0.4	95	34	4.13	-0.14	14.34	0.77	4.82	10	13	10	8
1917	71.2	-1.9	94	25	2.83	-1.44	10.16	0.06	7.94	6	17	9	5
1918	76.6	+3.5	96	53	5.84	+1.57	13.78	0.30	6.50	12	11	11	9
1919	79.2	+6.1	98	58	2.42	-1.83	8.87	0.04	4.53	7	18	10	3
1920	71.2	-1.9	92	32	1.91	-2.36	9.98	0.00	5.90	5	19	8	4
1921	72.7	-0.4	96	36	9.05	+4.78	31.34	1.15	11.78	11	11	10	10
1922	74.5	+1.4	96	38	8.28	+4.01	23.89	1.50	4.50	14	10	11	10
1923	71.9	-1.2	98	32	3.47	-0.80	15.22	0.78	9.00	8	15	8	8
1924	71.7	-1.4	94	37	10.82	+6.65	39.08	0.25	23.22	12	11	8	12
1925	75.3	+2.2	99	37	3.37	-0.90	7.92	0.43	3.02	7	15	10	6
1926	73.8	+0.7	98	32	2.63	-1.04	15.22	0.18	9.00	6	17	10	4
1927	73.8	+0.7	98	34	3.78	-0.49	11.23	0.64	5.65	8	15	10	4
1928	75.1	+2.0	94	39	3.17	-1.10	20.31	0.47	4.07	8	16	10	5
1929	71.7	-1.4	94	35	4.15	-0.12	30.15	0.33	8.00	7	17	7	7
1930	71.0	-2.1	94	35	2.70	-1.57	13.37	0.39	6.15	7	14	10	7
1931	74.5	+1.4	95	35	2.41	-1.86	12.38	0.10	5.40	7	14	11	6
1932	73.7	+0.6	94	37	4.31	+0.04	17.43	0.72	7.64	7	15	9	7
1933	74.7	+1.6	96	37	4.83	+0.56	23.56	0.12	13.54	10	13	10	8
1934	75.3	+2.2	97	35	3.64	-0.63	20.51	0.11	17.07	8	18	9	4
Mean	73.1				4.27					8	15	10	6

Climatological Data for October, 1934

Table with columns: Stations, Counties, Elevation, Length of record, Temperature (Mean, Departure from normal, Highest, Date, Lowest, Date, Greatest daily range), Precipitation (Total, Departure from normal, Greatest in 24 hours, Snowfall, un-melted, With .01 or more precipitation), Number of days (Clear, Partly cloudy, Cloudy), Prevailing direction of wind, Observers.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining state means. † Precipitation is less than 0.01 inch rain or melted snow. ‡ Received too late to be included in State means and extremes. Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, † represents two days, etc. ‡ Post-office addresses of these stations are as follows: † Isleworth, Windermere; Merritts Island, Cocoa; Chapman Field Garden, Coconut Grove; Davie, Ft. Lauderdale; Garniers, Crestview; Panama City, St. Andrew. ‡ Also on other dates.

Daily Precipitation for October, 1934

Stations	Drainage Basin	Day of month																															Total					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
<i>Northern Division</i>																																						
Carrabelle	Coast				T.	.11	.63				.08	.27																							.05	1.09		
Cedar Keys	do										1.28	.22	.25	.21																							2.10	
Crescent City	St. Johns	.41	.67	.02	.10																															3.16		
Federal Point	do	.72	2.17	.10				.50	1.26	1.06	.24																							.10	6.20			
Fernandina	Coast	.08	.57	.31	.06			.97	.11	.67		1.33	.34																				.01	.56	5.01			
Gainesville	Lake	.84	2.20		.07	1.20	.12	.16			.02	.34	.48	.32																					20	5.75		
Glen St. Mary	St. Marys	.27			.14	.70	.05	1.47			.35	.55	.19	.33																					20	4.25		
Hastings	St. Johns			.41	2.12	.18			.28	.15	.10	.04																						.10	3.68			
Hilliard	Nassau				.65		.70			.40		.50	.80																					.35	3.40			
Jacksonville	St. Johns	.96	1.07	.82	.23	.10	.10	T.	.17	.01	.53	.81	T.																					.44	5.24			
Jacksonville (2)	do																																					
Lake City	Suwanee				.28	.28	.02	.22	.02	.15	.10																							.02	1.09			
Madison	do	.05			.06	.30	.10	.20		1.42	.56	.01																							2.70			
Monticello	Aucilla	.48			.02			.10	.43		.82	.27	.10	T.																					2.22			
Mount Pleasant	Apalachicola							.43	.43		.14	.55																							1.12			
Palatka	St. Johns					.28		.25		.40	.35	.50	1.15																							2.93		
Perry	Fenholloway																																					
Quincy	Ocloconee	.47				.07	.04	.18			.09	.22	.58																					.01	1.56			
Raiford	Santa Fe																																					
St. Augustine	Coast	.37	2.12	.48	.17		1.49	.56	.98	.08	.13	.06	.22																				.03	.04	6.73			
Tallahassee	Ocloconee	.13				.08	.06	.15		1.10	.05	.05	T.																					.08	1.70			
<i>Central Division</i>																																						
Barlow	Peace Creek	.29	.24	.21									.01																						T.	0.75		
Brooksville (near)	Withlac'chee	1.45	.17				.28			.35	.36		T.																					.66	2.78			
Clearwater	Coast	.17	.29	.03	.03					1.03	.25	.11																						.11	2.53			
Clermont	Lake		.05	.55		.06							.08	.03																						1.69		
Daytona	Withlac'chee		.35		.10				.25																										.05	0.89		
De Land	Halifax		.50	.20					T.	.18																									.90	2.38		
De Land	St. Johns	1.10	.02	.26	.02	.54				.34	.25																							.21	.03	2.94		
Eustis	Lake		.02		.11		.12	.10	T.	.24	.02	.02																						.02	T.	0.65		
Felsmere	Sebastian	.03	.57	.06	.02		.16	1.53	.57																									.15	.21	T.	3.30	
Fort Pierce	Indian		.03	.09	T.		.99	1.10	.01					.02																				.14	.06	3.09		
Inverness	Withlac'chee		.78	1.38	2.51			.85	.02	.64	.58	T.																							.13	6.89		
Isleworth	Lake	1.10	.68	.46				1.50		.09	.03																								.12	3.98		
Kissimmee	Kissimmee	.13	.18	.57	.02		.06	.04	1.31																										.21	2.54		
Lake Alfred	Peace Creek			.29						.11																										.10	0.50	
Lakeland	do	.10	.02		.03		.18	.04																											.01	.03	0.41	
Lake Wales	Lake	1.40	.12					2.10	.92	.01																									.15	.09	4.79	
Merritts Island	Indian		.44			T.	.03	1.45	.06	.18			.65	.05																				.42	.20	3.50		
New Smyrna	Coast		.36	T.		.15		.01	.03				.17	1.57																				T.	.27	2.56		
Ocala	Ocklawaha		.55	.02	.01	.30	T.	.02		.60	.74																								.06	.02	2.27	
Okeechobee	Lake		.75	.50	.08			.65	.42		.04	T.																							.25	2.75		
Oriando	St. Johns			.03	.62	.04	.18	.07	.56																												2.15	
Pinellas Park	Coast	.92	1.25	.09	1.08	.01		.54		.03																											3.92	
Plant City	Hillsboro	2.23	1.51						.90		.49																									.03	5.16	
St. Leo	Withlac'chee	.40	.30	.09	.03			.51	.67	1.36			.18																						.01	3.55		
St. Petersburg	Coast	3.21	.82	.01	.68		.12			.01	.01		.02																							.01	4.88	
Sanford	St. Johns		.02	.16	.40	.09	.07	.03	.02	.04			.05	.28																						.09	1.41	
Tampa	Coast	.01	.07							3.32	.01																									T.	3.54	
Tarpon Springs	do	.39	.98				.12	.83	.48	2.05	.04		.05																							.05	4.94	
Titusville	Indian		.06	1.56	.02	T.	1.54	.28	.44	.02			.07																						.10	4.11		
Zellwood	Lake	.77	.12	T.	.02	.29	.16	T.	.08																										T.	1.57		
<i>Southern Division</i>																																						
Arcadia	Peace Creek	.01	.96					.42	.01																										.32	1.72		
Avon Park	Lake		.02						.04	.02																											.03	0.11
Belle Glade	do	.03	.06	2.01				.03	.29	.71	.01																								.04	3.22		
Bradenton	Manatee	.89	.62	.17	.08			.35		.59				.12																							2.82	
Chapman Fld G'd'n	Coast	.16	.16		.09	T.		.04	.01	.02	.01																								.25	1.67		
Davis	New	.10	.05		.09	T.			.06	.07	T.			.08	T.																				.08	0.90		
Everglades	Coast			.48																																	.08	0.48
Fort Lauderdale	New	.02	.35					.15	.17				.01	.23	1.45	.01	.06	1.36																	.38	4.25		
Fort Myers	C'loos h'chee	.21	.02	.06			.01	.04	1.15	.01			.08																						.01	1.59		
Homestead	Coast	.14	.12			.51					.09	.21	.06	.01																					.15	3.22		
Hypoluxo	Lake	.17	.40	.07					.92					.20	.17																							

Daily Temperatures for October, 1934

Table with columns for Stations, 1-31, and Mean. Rows are categorized by Northern Division, Central Division, Southern Division, and Western Division. Each station entry includes maximum and minimum temperature values for each day of the month.

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day on which it almost always occurs.